

Recombinant Human BMP4 protein

Cat. No. BMP4-26170TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP4(293-408aa) was expressed in E. coli.
Species	Human
Source	E.coli
Description	Bone morphogenetic protein 4 (BMP-4) is a member of the bone morphogenetic protein family which belongs to the TGF-beta superfamily. This protein is a vital regulatory molecule that functions throughout bone and cartilage development, specifically tooth development, limb formation, bone induction, and fracture repair. In human embryonic development, BMP- 4 is required for the early differentiation of the embryo and establishing of a dorsal-ventral axis. And it is overexpressed in patients with fibrodysplasia ossificans progressiva.
Form	Liquid. In 10mM Sodium citrate buffer (pH 3.5), 10% glycerol
Molecular Mass	13.2 kDa (117 aa), confirmed by MALDI-TOF.
AA Sequence	MSPKHHSQRA RKKKNKNCRRH SLYVDFSDVG WNDWIVAPPG YQAFYCHGDC PFPLADHLNS TNHAIVQTLV NSVNSSIPKA CCVPTELSAISMLYLDEYDK VVLKNYQEMV VEGCGCR
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	> 95% by SDS - PAGE

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Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	BMP4 bone morphogenetic protein 4 [Homo sapiens]
Official Symbol	BMP4
Synonyms	BMP4; bone morphogenetic protein 4; BMP2B; BMP-4; BMP-2B; bone morphogenetic protein 2B; ZYME; OFC11; BMP2B1; MCOPS6;
Gene ID	652
mRNA Refseq	NM_001202
Protein Refseq	NP_001193
MIM	112262
UniProt ID	P12644
Chromosome Location	14q22-q23
Pathway	Adipogenesis, organism-specific biosystem; Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Glypican 3 network, organism-specific biosystem; Heart Development, organism-specific biosystem;

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Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem;

Function

BMP receptor binding; chemoattractant activity; cytokine activity; growth factor activity; protein binding;

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